

AFGHANISTAN



FUSION CELL

USCENTCOM

SOVIET MINES IN
AFGHANISTAN



DATE OF DOCUMENT 2 DEC 87

88-056-101-26

TABLE OF CONTENTS

	PAGE NO
FOREWORD	i
INTRODUCTION	1
TYPES/DESCRIPTION OF SOVIET ANTI-PERSONNEL (AP) MINES	5
MANUALLY EMPLACED MINES	5
SCATTERABLE MINES	8
SOVIET SCATTERABLE MINE DELIVERY SYSTEMS AND DISPENSERS	10
SOVIET SEISMIC MINEFIELD CONTROL AND REMOTE GROUND SENSOR SYSTEM	12
SOVIET MINE TACTICS IN AFGHANISTAN	15
MUJAHEDIN MINE COUNTERMEASURES	20
CONCLUSIONS	23



UNITED STATES CENTRAL COMMAND
MACDILL AIR FORCE BASE, FLORIDA 33608-7001

CCFC

2 DECEMBER 1987

FOREWORD

This study will detail mine delivery systems and tactics employed by the Soviets. Seismic minefield control devices and remote sensors are also discussed because they complement overall mining operations. An examination of the Mujahedin mine countermeasures followed by some conclusions will complete the study.

(U) This document is the product of the Afghan Fusion Cell and does not necessarily represent the official views of the Department of Defense, JCS or USCENTCOM. Comments and questions regarding this study are welcomed and encouraged. Address correspondence to USCENTCOM, ATTN: CCFC, MacDill AFB, Florida 33608-7001; or call AV 968-6580/6568, KY 9287/9279, GREY 991-6172.



THOMAS A LOKEN
COL USAF
Chief, Fusion Cell

INTRODUCTION

PAGE 2
DELETED

TYPES/DESCRIPTION OF SOVIET ANTI-PERSONNEL (AP) MINES.

MANUALLY EMPLACED MINES

MON-50 MINE.

MON-100.

MON-200.

PMN AP MINE.

PMN-2 AP MINE.

PMD-6, PMD-7, AND PMD-7ts AP MINES.

OZM-3, OZM-4, AND OZM-72 AP MINES.

POZM-2 AND POZM-2M AP MINES.

Both mines have a serrated cast iron body, resembling a World War II hand grenade mounted on a stake, and are tripwire initiated. However the newer version, the POMZ-2M, has a fuse well that will accept an electrical fuse. Each has an explosive charge of 0.75kg and a bursting radius of 10 meters. The Mujahedin have reported that these mines are used by the Soviets to booby-trap concertina wire barriers. The mine is attached to the wire by the pull pin. When the wire is stepped on or moved the pin is pulled and the mine explodes.

SCATTERABLE MINES.

PFM-1 AND PFM-1S AP MINES.

The PFM-1 is a reverse-engineered copy of the US BLU-43B. The Mujahedin call this device the "Butterfly" mine due to its distinctive appearance. This scatterable mine has an olive green or tan plastic case, shaped like a butterfly, with one side (wing) containing 0.0367kg liquid explosive. Pressure is hydraulically transmitted through the liquid explosive to the spring-loaded pressure fuse. Once armed the PFM-1 is an extremely sensitive and effective casualty producer. It causes incapacitating injury and has been known to blow off all or most of a foot. The PFM-1S is a second generation, self destruct variant, with a factory set random destruct period of probably one to twenty-four

hours.

PGMDM ANTITRACK (AT) MINE.

POM-2S ANTI-PERSONNEL FRAGMENTATION MINE.

SOVIET SCATTERABLE MINE DELIVERY SYSTEMS AND DISPENSERS.

BM-27 220MM MULTIPLE ROCKET LAUNCHER (MRL) DELIVERY
SYSTEM.

MI-8 HIP SERIES AND MI-24 HIND HELICOPTER DELIVERY SYSTEM.

FIXED WING AIRCRAFT DELIVERY SYSTEMS.

SOVIET SEISMIC MINEFIELD CONTROL DEVICES AND REMOTE GROUND
SENSOR SYSTEM.

VP-04 MINEFIELD CONTROL DEVICE.

PAGE 11
DELETED.

SOVIET REMOTE GROUND SENSOR SYSTEMS.

SOVIET MINE TACTICS IN AFGHANISTAN.

SOVIET DEFENSIVE MINEFIELD OPERATIONS.

PAGES 14 AND 15
DELETED.

SOVIET DENIAL MINEFIELD OPERATIONS.

AIRBORNE, AIR ASSAULT, AND SPETSNAZ USE OF MINES.

MUJAHEDIN MINE COUNTERMEASURES.

PAGES 19 AND 20

DELETED.

CONCLUSIONS

PAGES 22 THROUGH 24

DELETED .

DISTRIBUTION LIST
(This list is UNCLASSIFIED)

DOD AND JOINT ACTIVITIES

OSD/ISA	1
JCS/CHAIRMAN	1
JCS/J-3	1
JCS/J-4	1
JCS/J-5	1
JCS/J-6	1
JCS/J-7	1
JCS/J-8	1
JSI	1
CMDT NATIONAL WAR COLLEGE	1
CMDT INDUSTRIAL COLLEGE OF THE ARMED FORCES	1
CMDT ARMED FORCES STAFF COLLEGE	1

DIA

DIA/DB-1B	1	DIA/JSI-2B	1
DIA/DE-1	1		
DIA/DT-2D	1		
AFMIC	1		

US ARMY

HQDA	1	JOHN F. KENNEDY SWC	1
COMUSARCENT	1	EUDAC	1
FOREIGN SCIENCE AND TECHNOLOGY CENTER (FSTC)	1	CDR FORSCOM	1
CINCUSAREUR	1	CDR USAITAC/AIAT-AL	1
CG TRADOC	1		
USAITAC	1		
CG 1ST SOCOM	1		
CMDT US ARMY COMMAND AND GENERAL STAFF COLLEGE	1		
CMDT US ARMY WAR COLLEGE	1		
513 MIG	1		

US NAVY

CNO	1
COMUSNAVCENT	1
CMDT NAVAL WAR COLLEGE	1

US MARINE CORP

CMC	1
CG I MAF	1
CMDT MCDEC	1

US AIR FORCE

HQ USAF	1
COMUSCENTAF	1
CINCUSAFE	1
CINCTAC	1
9 TIS	1
CMDT AIR WAR	
COLLEGE	1
CMDT AIR COMMAND	
AND STAFF COLLEGE	1
FOREIGN TECHNOLOGY	
DIVISION (FTD)	1

UNIFIED AND SPECIFIED COMMANDS

CINCEUR	1
CINCPAC	1
CINCSOCOM	1
CINCMAC	1
CINCSAC	1

OTHERS

CIA	
NESA	1
SOVA	1
DDO/NE	2
NIC	2
NSA	
A2	1
G9	1
STATE/INR	1

SUBTOTAL 59INTERNAL

FUSION CELL	2	J-3	1
SOCCEM	1	J-4	1
NSA REP	1	J-5	1
CIA REP	1	HISTORIAN	1
J-2 IAN	1	DIA	1

SUBTOTAL 11

TOTAL DISTRIBUTION 70